

ABSTRACT OF THE DISCLOSURE

A data transmission system is described that connects a controller with drives in machine tools and production machines. The controller can be connected via an internal data bus with at least one internal drive, wherein the same data bus profiles are used for the internal data bus as for an external data bus. A user then sees the same data interface both for a central control topology and a drive-based control topology. This allows the user to readily interchange the two topologies and port existing applications to the various control topologies.